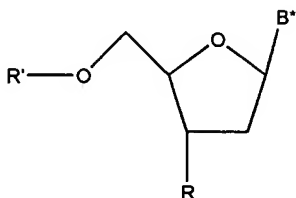


Amendment to the claims:

1. (Currently Amended) A cancer-specific radiolabeled conjugate of the formula:



(I)

wherein B' represents uracil~~thymidine~~ substituted with a radionuclide; R represents H, OH, or O-L-DHT, L being a cleavable bifunctional linking moiety and DHT is 4-dihydrotestosterone which is bound through its hydroxyl substituent to said linking moiety; and R' represents H or a ~~phospho group or a substituted phospho group~~ having the formula - PO(OR_a)(OR_b), -PO(OR_a)(ODHT) or -PO(ODHT)₂, R_a and R_b being the same or different and representing H or lower alkyl having 1-8 carbon atoms and DHT is as previously defined, with the proviso that at least one of the R and R' substituents comprises a DHT moiety.